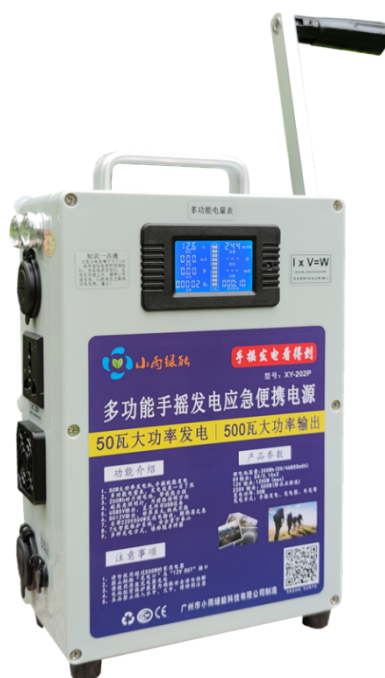


Instructions for use of hand-cranked emergency portable power supply (XY-202P)

Product patent number: ZL202230795197.8



Product description

Dear user, welcome to use this product! This hand-cranked power generation emergency portable power supply is a new type of emergency power generation portable product developed by Guangzhou Xiaoyu Green Energy Technology Co., Ltd. This product has the function of hand-operated power generation, with super bright lighting, USB 5V output, DC12V output, and AC 220V output. It is small in size, light in weight and powerful in function. Capacity and other information, it is a real hand-cranked power generation portable product. The product itself also supports external charging, supports car chargers with the same voltage as protection devices and solar chargers, and can meet more than 95% of the application needs of business trips, travel, exploration, archaeology, and sudden power outages.

Technical Parameters

Generator type: DC all-steel gear generator (gears are heat-treated), with a lifespan of up to 270,000 hours

Generator power: 1-50W (power generation is related to the speed of the hand crank, up to 50W)

Generator output current: maximum 4.5A (generator output current is related to the hand speed, up to 4.5A)

Built-in battery pack capacity: 200Wh (equivalent to 12V16AH, 5V/46800mah)

Built-in battery type: big brand 18650 power lithium battery, long life, replaceable

With LED lighting: 10W*2

USB 5V: 2.1A*2, compatible with most mobile phones on the market

DC 12V: maximum 120W, car universal cigarette socket, support various car electrical appliances

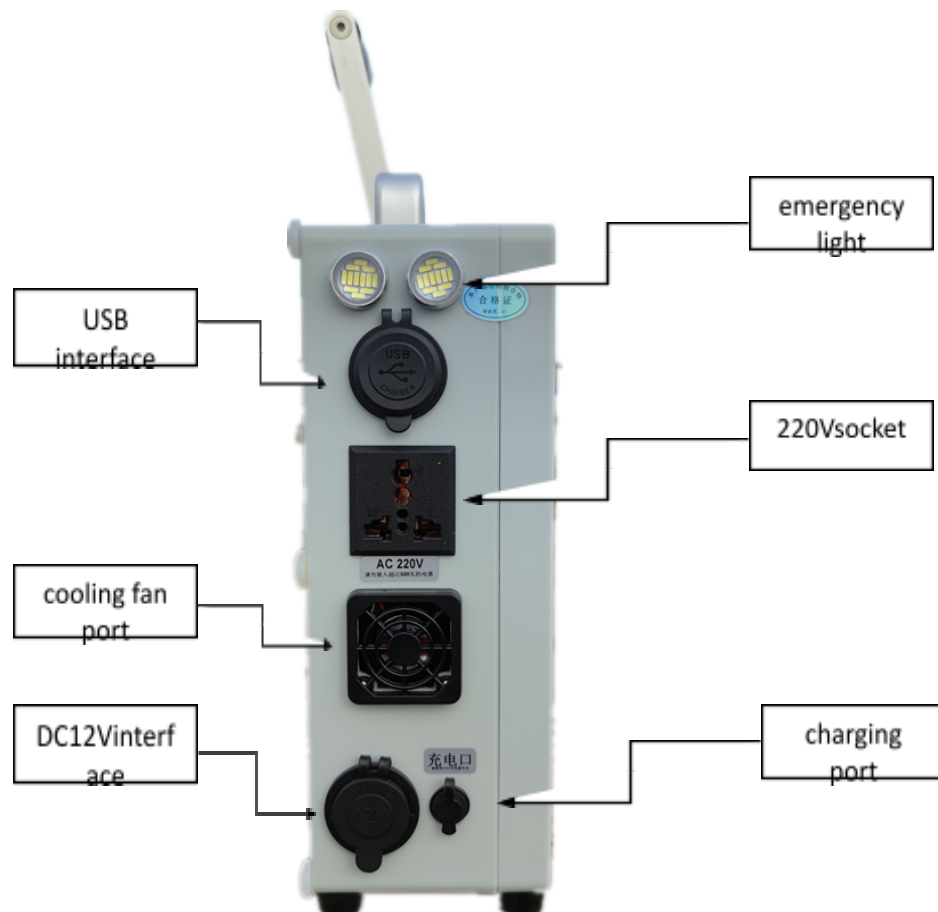
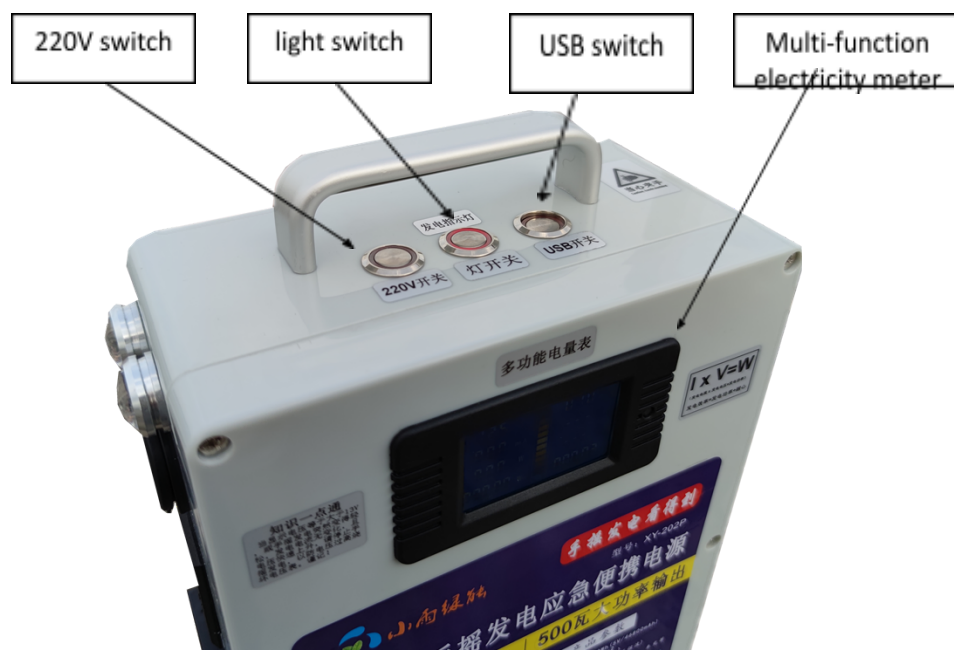
AC 220V: 500W output power (maximum 500W, corrected sine wave), suitable for charging large-screen color TVs, desktop computers, notebook computers, energy-saving lamps, LED lights, incandescent lamps, fluorescent lamps, electric fans, printers (only suitable for inkjet printers), Common electrical appliances such as electric drills, computer monitors, walkie-talkies, maritime telephones, routers, etc. (This product is not suitable for electric heating appliances such as electric rice cookers. If you really want to use it, the maximum power cannot exceed 200 watts, and it can only be used for emergencies. The power of other electronic and motor appliances can reach 500 watts, such as 700 watts)

The hand electric drill can be used normally)

Product Size

275X185X100mm, can be easily put into the backpack

Switch button and interface introduction



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Product instructions and precaution

- 1、 Press the "light switch", the built-in emergency light will light up, and the battery life can reach 80 hours when the power is normal;
- 2、 Press the "USB switch", and the USB 5V interface will output 5V 2.1A DC power, which can directly charge most of the mobile phones and tablet computers on the market, and can also use USB fans, speakers, etc.;
- 3、 Press the "220V switch", and the 220V socket will output 220V/500W AC power, which can be used for emergency use of electrical appliances within 500W;
- 4、 When the power is generated by hand, the "power generation indicator" on the top of the product lights up, and the power generation ammeter lights up at the same time. The faster the hand cranking speed, the greater the power generation current, and the generated power is directly stored in the built-in power lithium battery pack. Shake can generate electricity;
- 5、 Press any switch, the multi-function power meter lights up, and you can check the built-in battery power, voltage and other information;
- 6、 During the manual power generation process, the multi-function meter lights up, the displayed voltage is the power generation voltage, and the dynamic current value on the left is the current power generation current value, the larger the value, the greater the power generation. However, the power value on the multi-function power meter will only accumulate when the power is generated by hand, and charging with a charger in other ways will not accumulate power.
- 7、 Use the charger to charge, you can check the charging status according to the status of the charger indicator light, the red light is showing charging, and the green light is showing charging is complete. After the charging is completed, please unplug the power plug immediately, and do not plug it into the charging port for a long time;
- 8、 Normal voltage and power range: 10V-12.6V (the voltage display value is slightly different, the fully charged state may be higher or lower than 12.6V, as long as the charger turns green, it is normal), and it needs to be charged when it is lower than 10V. Be careful that the adjustment is messed up. To check the power, you can refer to the table as shown in the figure below:

● 显示电压与电量参考对比关系:

10V	10.5V	11V	11.5V	12V	12.6V
0%	20%	40%	60%	80%	100%

● 正常电压范围: 显示电压在**10-12.6V**内可正常使用。

● 亏电状态: 低于**10V**请及时充电。

9. When the display voltage is equal to or greater than 12.6V, or the manual power generation suddenly becomes easy, the generated current does not change, and the voltage rises rapidly, indicating that it is fully charged, please stop the manual power generation;
10. When you press the 220V switch, if you hear beeps inside the machine and there is no output from the 220V socket, you can turn off the switch and press it again, and then it can be used normally without beeping.
11. When the battery power is too low (lower than 10.2V), the 220V function will stop outputting, accompanied by beeping. Please stop using the 220V function at this time and charge it as soon as possible;
12. Because the built-in power battery pack has a protection circuit, there is no need to worry about overcharging and discharging the battery (requires the original charger to charge);
13. The product is rainproof and cannot be soaked in water. If it accidentally falls into the water, please turn off the power, dry it as soon as possible, and place it alone. If it cannot work normally, please contact the after-sales service, and do not disassemble it by yourself;
14. When the emergency power supply is left unused for a long time, charge it once every six months to ensure that the internal battery does not lose power.

Common problem

1. There is no current display on the manual generator or the current display value is too small?

Answer: The output power of the hand-crank generator is related to the speed of the hand-crank. The faster the hand-crank, the greater the power generation and the greater the current display value. If you encounter this problem, you can try to increase the speed of the hand-crank.

2. How fast is the right crank speed?

Answer: Normally, it should not be lower than 60 rpm, and it can be fast or slow according to the physical condition.

3. The manual speed is not uniform, which will affect the output of each interface?

Answer: No, hand crank power generation is equivalent to charging with a charger, and the output of each interface is output through the internal battery pack after voltage stabilization by each control circuit. The output voltage is stable, please feel free to use it.

4. Can reverse hand crank generate electricity?

Answer: It is absolutely possible. The manual power generation can generate power normally regardless of the forward and reverse directions.

5. How long does it take for the hand crank to charge the internal battery with a depleted internal battery pack?

Answer: The maximum generating power of the product is 50W, and the actual maximum output current is 4.5A. Normally, the internal battery can be fully charged within 1-6 hours. Because the power generated by the hand crank is related to the speed of the hand crank, it may take longer.

6. If you remove the internal battery (remove the fuse to disconnect the battery pack) and completely hand crank the power, can you still charge your phone?

Answer: Yes, but it is not allowed to generate electricity manually without load, in order to prevent the internal circuit from being burned. After plugging in the mobile phone and connecting the charging cable, the power is generated by hand cranking, and the speed of the hand cranking cannot be lower than 60 revolutions per minute, and the displayed voltage is kept above 12V, otherwise the charging effect of the hand cranking will become very slow.

7. How to fold the hand crank?

A: Hold the silver aluminum rocker with one hand, and pull the black rocker outward with the other hand. After pulling out, it can be folded.

Product Warranty Terms

Dear customers:

Hello! First of all, thank you for choosing the products of Guangzhou Xiaoyu Green Energy Technology Co., Ltd., and I would like to express my gratitude! In order to provide you with more satisfactory services and better protect your rights and interests, please read this clause carefully.

Terms and Conditions:

This clause applies to the products produced by Guangzhou Xiaoyu Green Energy Technology Co., Ltd. Anyone who purchases our company's products can enjoy the free warranty service provided by our company within the specified warranty period. The product is guaranteed for one year from the date of purchase, and the warranty period of the internal battery of the product is 12 months. If the following conditions exist during the warranty period, the company will charge appropriately according to the damage. After the warranty period, the company will charge the cost and maintenance fee according to the actual situation.

1. The returned products have the following phenomena:

◆The multi-function electric meter does not display;

◆No output when the switch is pressed;

◆Non-current value of hand-operated power generation (required that the hand-operated speed should be kept above 60 rpm);

◆Cannot charge.

2. Man-made damage, including: damage to the product shell and handle, improper use causing severe internal burnout, etc.;

3. Unauthorized repair or modification of the product.

4. Failure to operate in accordance with the instructions and product requirements;

5. Charging with a non-original charger or charging with a solar panel that does not match the access voltage level, resulting in failure of the product protection panel or damage to the battery due to overcharging and leakage.

Product Disclaimer

The product is not artificially guaranteed for one year, and the warranty period of the internal battery of the product is 12 months. During the use of the product, due to output short circuit, immersion in water, overcharging with non-original charger or other charging methods, artificial short circuit fuse, heavy blow to the product, puncture by sharp objects, unauthorized modification of the product circuit structure and manual power generation method, throwing into fire The company is not responsible for serious damage or even burning of the product or casualties caused by the medium.



小雨绿能

Guangzhou Xiaoyu Green Energy Technology Co., Ltd.